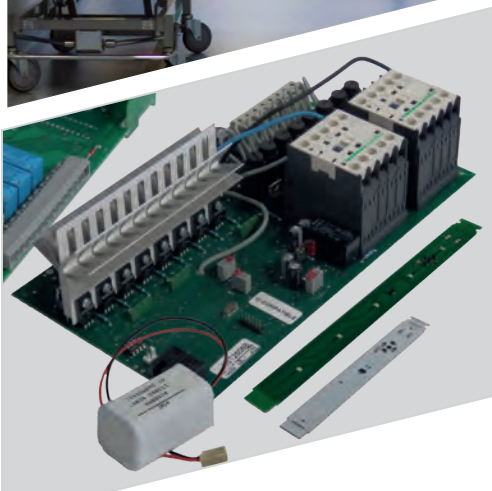


# EMERGENCY LIGHTING HIGHLIGHTING SAFETY



**SPARE PARTS**

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# HOW TO FIND PRODUCT INFORMATION

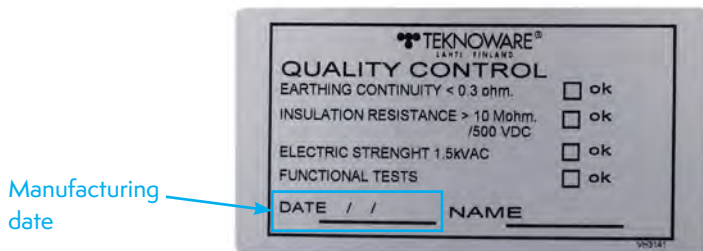
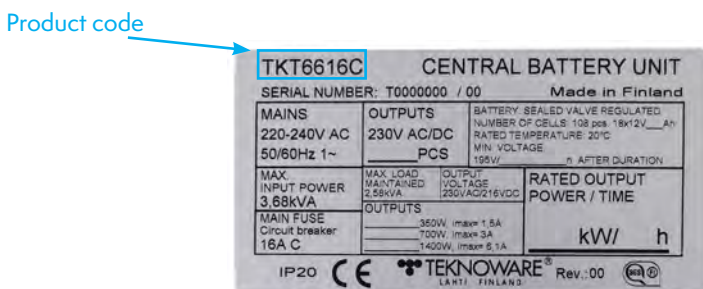
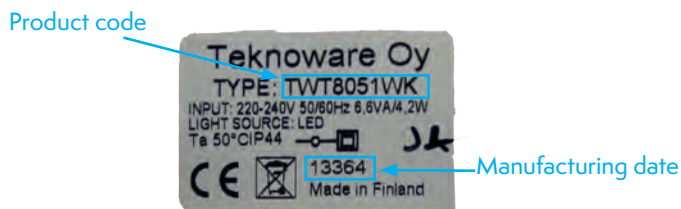
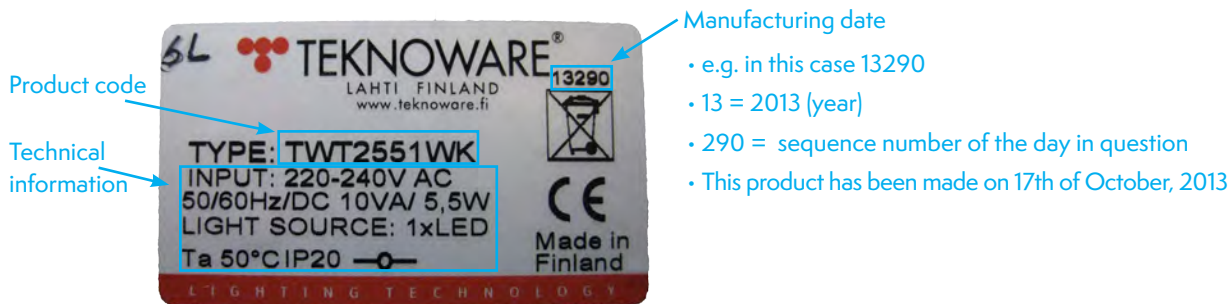
Please note ! Only the skilled person of electrical engineering may perform the installation and maintenance of the emergency lighting products.

In order to get a quick answer, when contacting Teknoware about a product, please find out beforehand:

1. The product's product code
2. Find out the product's manufacturing date

## HOW TO FIND OUT THE MANUFACTURING DATE AND PRODUCT CODE FROM THE TEKNOWARE'S PRODUCT'S

All our products always contain a type sticker (see pictures below). The sticker includes e.g. the product's manufacturing date.



# SPARE PARTS FOR ALL TEKNOWARE CENTRAL BATTERY SYSTEMS



	TKT3122	TKT41xx	TK23xx	TK23xxC	
Charger	W010001	W010002	W010003 or W010004	W010003 or W010004	
Temperature Sensor	W040001	W040001	W040001 or W040003	W040001 or W040003	
Output Circuit Board		W020001		W020002	
DC-DC Module			W030001	W030001	
Interference Removal Board			W030003	W030003	
Central Unit Board			W030002	W030002	
Addressable Test Card				W020003	
Control Board					
Charger Switch					
Charger Control Unit					
Main Switch for Central Battery Systems	W040002	W040002	W040002	W040002	
Outputs Off Switch					
Internal Power Supply Unit					
Internal Bus Current Voltage Supply				W030007	
Data Cable 50 cm				W040004	



	TKT65xxB	TKT65xxC	TKT66xxC	TKT67xxC	TKT68xxC
	W010005	W010005	W010005	W010007 or W010005	W010005
	W040003	W040003	W040003	W040003	W040003
	W020004	W020006 or W020005	W020007	W020007	
	W030005	W030005	W030005	W030005	W030005
	W030008	W030006 or W030008	W030008	W030008	W030008
				W030009	
				W010008	
	W040002	W040002	W040002	W040006	W040002
	W040005	W040005	W040005	W040005	W040005
	W030010 or W030004	W030004	W030004	W030004	W030004
	W030007	W030007	W030007	W030007	W030007
	W040004	W040004	W040004	W040004	W040004

# SPARE PARTS FOR TKT31/41 CENTRAL BATTERY SYSTEMS






Product picture	Product code	Product description
A green printed circuit board (PCB) with various electronic components, including a large black transformer, capacitors, and integrated circuits. It has several connectors and a heat sink.	W010001	Charger for TKT31 Central Battery Systems (XST0101)
A white, flexible cable with a black sensor probe at the end, coiled in a loose loop.	W040001	Temperature Sensor for TKT31/41 Central Battery Systems (XJ3120B)
A green printed circuit board (PCB) similar to the first one, but with a different component layout, including a transformer and various electronic components.	W010002	Charger for TKT41 Central Battery Systems (XST0102)
A green printed circuit board (PCB) with several large black electrolytic capacitors and a terminal block with green wires.	W020001	Output Circuit Board for TKT41 Central Battery Systems (XW34000)

# SPARE PARTS FOR TK23XX(C) CENTRAL BATTERY SYSTEMS

Product picture	Product code	Product description
	W030001	DC-DC Module for TK23xx(C) Central Battery Systems (XW89401)
	W030003	Interference Removal Board for TK23xx(C) Central Battery Systems (TS96701)
	W030002	Central Unit Board for TK23xx(C) Central Battery Systems (TS93524(B))
	W010003	Charger for TK23 Central Battery Systems (if the original part is TS93525)
	W010004	Charger for TK23xx(C) Central Battery Systems (if the original part is TS93526)
	W040001	Temperature Sensor for TK23xx(C) Central Battery Systems (if the Central Battery System has been made before 2006, and the ori- ginal Charger is TS93526)
	W040003	Temperature Sensor for TK23xx(C) Central Battery Systems (if the Central Battery System has been made after 2006, and the original Charger is TS93526)
	W020003	Addressable Test Card for TK23xxC Central Battery Systems (TS98124)
	W020002	Output Circuit Board for TK23xxC Central Battery Systems (XW98125)

# SPARE PARTS FOR TKT65XX CENTRAL BATTERY SYSTEMS

FOR TKT65XXB AND TKT65XXC CENTRAL BATTERY SYSTEMS






Product picture	Product code	Product description
	W030006	Control Board for TKT65C Central Battery Systems (if the original part is XST2501)
	W030008	Control Board for TKT6x Central Battery Systems (if the original part is XST2502)
	W020005	Output Circuit Board for TKT65C Central Battery Systems (if the original part is XST2608)
	W020006	Output Circuit Board for TKT65C Central Battery Systems (if the original part is XST2608B)
	W020004	Output Circuit Board for TKT65xxB Central Battery Systems (XST0203)

# SPARE PARTS FOR TKT66XXC CENTRAL BATTERY SYSTEMS

Product picture	Product code	Product description
	W020007	Output Circuit Board for TKT66/67 Central Battery Systems (XST2618)



# SPARE PARTS FOR TKT67XXC CENTRAL BATTERY SYSTEMS





Product picture	Product code	Product description
	W020007	Output Circuit Board for TKT66/67 Central Battery Systems (XST2618)
	W030009	Charger Switch for TKT67 Central Battery Systems (TST2707)
	W010007	Charger for TKT67 Central Battery Systems (STK30D)
	W010008	Charger Control Unit for TKT67 Central Battery Systems (STK30B)
	W040006	Main Switch for TKT67 Central Battery Systems (SK002)

# SPARE PARTS FOR TKT6XXX(C) CENTRAL BATTERY SYSTEMS

FOR TKT65, TKT66, TKT67 AND TKT68 CENTRAL BATTERY SYSTEMS

Product code	Product code	Product description
	W030005	Central Unit Board for TKT6x Central Battery Systems (TS93565)
	W030008	Control Board for TKT6x Central Battery Systems NOTE ! Not suitable for replacing XST2501 (XST2502)
	W010005	Charger for TKT6x Central Battery Systems (XST0201)
	W040005	Outputs Off Switch for TKT6x Central Battery Systems (SK036B)
	W030004	Internal Power Supply Unit for TKT6x Central Battery Systems (XST0202)
	W030010	Internal Power Supply Unit for TKT65xxB Central Battery Systems (which are made before 2012) (XST0202)
	W040003	Temperature Sensor for TKT6x Central Battery Systems (XJT6505)

# SPARE PARTS FOR TAPSA CONTROL CENTRAL BATTERY SYSTEMS

Product picture	Product code	Product description
	W040002	Main Switch for Central Battery Systems (not for TKT67 Central Battery Systems) (SK036)
	W030007	Internal Bus Current Voltage Supply (TST2701)
	W040004	Data Cable 50 cm (XJT6730)
	W040007	Printing Tape for the Central Battery System's Integrated Printer (NL23)
	W040008	Colour Ribbon for the Central Battery System's Integrated Printer (NL24)

# ELECTRONIC BALLASTS


| Electronic Ballasts for Emergency and Exit Lights using Fluorescent Lamps

Product picture	Product code	Technical information	Measures (mm) (width x height x length)
	W110006	24 V AC/DC 36-42 W (TMK4903B)	44 x 29 x 142
	W110007	42 V AC/DC 36-42 W (TMK4913B)	44 x 29 x 142
	W110008	110-230 V AC/DC 36-42 W (TMK4933B)	44 x 29 x 142
	W110005	230 V AC/DC 18-40 W (TMK5933B)	44 x 29 x 142
	W110001	230 V AC/DC 5-11 W, addressable, compatible with Tapsa Control Central Battery Systems (TMT0901C)	44 x 32 x 150
	W110003	24 V AC/DC 4-11 W (TM71411)	40 x 31 x 86
	W110004	24 V AC/DC 18 W (TM71431)	34 x 28 x 116
	W110002	230 V AC/DC 4-11 W (TM71771)	40 x 31 x 60

# LED DRIVERS

Product picture	Product code	Technical information	Measures (mm) (width x height x length)
	W100001	LED Driver, 230 V AC/DC, 350 mA, for Centrally Supplied, addressable Emergency and Exit Lights (plastic casing) (TST1401C)	44 x 32 x 150
	W100002	LED Driver, 230 V AC/DC, 700 mA, for Centrally Supplied, addressable Emergency and Exit Lights (plastic casing) (TST1403C)	44 x 32 x 150
	W100003	LED Driver, 3 x LED, 230 V AC/DC, 700 mA, for Centrally Supplied, addressable Emergency and Exit Lights (plastic casing) (TST1409D)	44 x 32 x 150
	W100004	LED Driver, 6 x LED, 230 V AC/DC, 700 mA, for Centrally Supplied, addressable Emergency and Exit Lights (plastic casing) (TST1410D)	44 x 32 x 150
	W100008	Electronic Ballast 24 V DC 5 W (TS89934)	39 x 31 x 84
	W100005	LED Driver 350 mA 1 x LED (TST0611)	39 x 31 x 84
	W100006	LED Driver 700 mA 1 x LED (TST0613)	39 x 31 x 84
	W100007	LED Driver 700 mA 2 x LED (TST0616)	39 x 31 x 84
	W100009	LED Driver/Battery Charger 1 x LED (TST0623)	39 x 31 x 84
	W100010	LED Driver, 230 V AC 4,8 V 600 mA / 1 h Battery Charger (TS89973C)	28x 1 x 215
	W100011	LED Driver 230 V AC 4,8 V 600 mA / 1 h Battery Charger (plastic casing) (TS89973E)	43 x 32 x 150
	W100015	LED Driver 24-230 V AC/DC 700 mA for Centrally Supplied Emergency and Exit Lights (TS0613B)	28 x 1 x 215
	W100013	LED Driver 230 V AC/DC 700 mA for Centrally Supplied, addressable Emergency and Exit Lights (TST1403)	40 x 27 x 147
	W100012	LED Driver 230 V AC/DC 350 mA for Centrally Supplied, addressable Emergency and Exit Lights (TST1401B)	28 x 1 x 215

# BATTERY PACKAGES FOR SELF-CONTAINED EMERGENCY AND EXIT LIGHTS

Product picture	Product code	Technical information	Measures (mm)
	W120001	4 Ah/3,6 V NiCd (XW21005 (EA026))	Ø 30, length 179
	W120002	1,5 Ah/3,6 V NiCd (XW38003 (EA029))	160 x 23x 26
	W120003	1,5 Ah/3,6 V NiCd (without End Covers) (XW38003B (EA029B))	Ø 22, length 126
	W120004	2,3 Ah/6 V NiCd (XW38005 (EA028))	225 x 33 x 36
	W120010	7,0 Ah/6,0 V NiCd (XW48006 (EA030))	495 x 32 x 38
	W120009	1,5 Ah/3,6 V NiCd (cells side by side) (XW80250 (EA031))	68 x 42 x 42
	W120008	0,6 Ah/3,6 V NiCd (XW89054 (EA035))	58 x 26 x 26
	W120006	0,6 Ah/4,8 V NiCd (XW89974 (EA038))	50 x 29 x 30
	W120007	1,5 Ah/4,8 V NiCd (XW89975 (EA039))	Ø 20, length 170
	W120011	0,55 Ah/4,8 V NiMh (XWT9001(EA051)) The battery is also used in Central Battery Systems	45 x 21 x 21

# LED BOARDS FOR EXIT LIGHTS

Product picture	Product code	Technical information	For Exit Lights (manufacturing date)	Measures (mm)
	W130009	LED Board 5 x 0,25 W with quick connect (If the original part is XST1011)  Note that ESC/SAFE 29 (TWT29xx) and ESC 6L (TWT62xx) Exit Lights already have 1 x XST1011 and 1 x XWT1011K LED Boards	TW41671W, 13177→ TW88871W, 13137→ TW88852W, 13128→ TWT1752W(S), 13017→ TWT1771W(S), 13009→ TWT1751WK(S), 13008→ TWT2971W, 13030→ TWT2951WK, 13015→ TWT2953W, 13002→ TWT2952W, 13017→ TWT3871W, 13108→ TWT3852W, 13108→ TWT6052W(S), 13009→ TWT6051WK, 13014→ TWT6071W(S), 13014→ TWT6271W, 13014→ TWT6251W(K), 13015→ TWT6252W, 13045→ TWT9651W, 14164→	182 x 104
	W130010	LED Board 5 x 0,25 W, addressable (If the original part is XST1011K)  Note that ESC/SAFE 29 (TWT29xx) and ESC 6L (TWT62xx)- Exit Lights already have 1 x XST1011 and 1 x XWT1011K LED Boards	TW88851WK, 13207→ TWT6051WK(S), 13014→ TWT6251WK, 13015→ TWT2951WK, 13015→ TW41651WK, 14003→	182 x 104
	W130003	LED Board + Cables (XW89041E)	ESC 20: TW89041W, TW89051W, TW890xxL	200 x 29
	W130001	LED Board + Cables (XW77741W)	ESC 5: TW77541W, TW77551W, TW77741W, TW77751W	244 x 28
	W130006	LED Board 160 mm (XW89081)	ESC 20: TW89081W	160 x 29
	W130002	LED Board + Cables (XW89141E)	ESC 20: TW89141W, TW89151W	300 x 29

\*) If the Emergency or Exit Light has been made after the date mentioned in the type sticker, after the product code, it will need the LED spare part package, see pages 16-17.

Guide for interpreting the date, see page 3.




# LED SPARE PART PACKAGES FOR EXIT LIGHTS

| With LED spare part package, you can also update the Exit Lights, using fluorescent lamps, into long-life LED Exit Lights

## FOR CENTRALLY SUPPLIED EXIT LIGHTS

Product picture	Product code	Product description	For lights
	W200001	LED Spare Part Package (XWT1771W) (includes all interior parts)	ESC 4, TWT1771W
	W200002	LED Spare Part Package (XWT6071W) (includes all interior parts)	ESC 6, TWT6071W
	W200003	LED Spare Part Package (XWT6271W) (includes all interior parts)	ESC 6L, TWT6271W
	W200004	LED Spare Part Package (XWT2971W) (includes all interior parts)	ESC 29 / SAFE 29, TWT2971W

## FOR SELF-CONTAINED EXIT LIGHTS

Product picture	Product code	Product description	For lights
	W200009	LED Spare Part Package (XWT1752W) (includes all interior parts)	ESC 4, TWT1752W
	W200010	LED Spare Part Package (XWT6052W) (includes all interior parts)	ESC 6, TWT6052W
	W200011	LED Spare Part Package (XWT6252W) (includes all interior parts)	ESC 6L, TWT6252W



# LED SPARE PART PACKAGES FOR EXIT LIGHTS

## FOR CENTRALLY SUPPLIED, ADDRESSABLE EXIT AND EMERGENCY LIGHTS

Addressable Exit and Emergency Lights have the letter K at the end of their product code e.g. TWT1751WK

Product picture	Product code	Product description	For lights
	W200005	LED Spare Part Package (XWT1751WK ) (includes all interior parts)	ESC 4, TWT1751WK
	W200006	LED Spare Part Package (XWT6051WK ) (includes all interior parts)	ESC 6, TWT6051WK
	W200007	LED Spare Part Package (XWT6251WK ) (includes all interior parts)	ESC 6L, TWT6251WK
	W200008	LED Spare Part Package (XWT2951WK ) (includes all interior parts)	ESC 29/ SAFE 29, TWT2951WK

# DIFFUSERS FOR EMERGENCY AND EXIT LIGHTS

NOTE! A diffuser used in Emergency Lights always needs a pictogram. The pictograms need to be ordered separately. The pictogram may already be attached to the diffuser at Teknoware. All new Exit Lights come with pictograms according to EN ISO 7010\*.

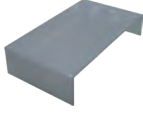







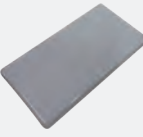














NOTE! The pictograms marked with an asterisk (\*) in the table are according to EN ISO 7010 

Product picture	Product code	Product description	Product code	Pictogram
	W140001	Diffuser (XK775), for ESC 5 (TW775xx) Exit Lights	PB4161B	
			PB4162B	
			PB4171B	
			PB101	
	W140002	Diffuser (MKT2903), for ESC 29 / Safe 29 (TWx29xx) Exit and Emergency Lights	PB039	
			PB038	
			PB048	
			* PB039E	
			* PB038E	
			* PB048E	
	W140003	Diffuser (MKT2203), for Safe 22 (TWT22xx) Emergency Lights	-	-
	W140004	Diffuser (MKT77513B), for ESC 6 (TWx60xx) Exit Lights (white end covers)	Pictograms for diffusers W140004 and W140010:	
	W140010	Diffuser (MKT77503B), for ESC 6 (TWx60xx) Exit Lights (grey end covers)	PB045	
			PB046	
			PB044	
			PB047	
			* PB045E	
			* PB046E	
			* PB044E	
	W140005	Diffuser (MKT1714), for ESC 4 (TWx17xx) Exit Lights (white end covers)	Pictograms for diffusers W140005 and W140009:	
	W140009	Diffuser (MKT1704), for ESC 4 (TWx17xx) Exit Lights (grey end covers)	PB041	
			PB042	
			PB040	
* PB041E				
* PB042E				
* PB040E				

# DIFFUSERS FOR EMERGENCY AND EXIT LIGHTS

NOTE! A diffuser used in Emergency Lights always needs a pictogram. The pictograms need to be ordered separately. The pictogram may already be attached to the diffuser at Teknoware. All new Exit Lights come with pictograms according to EN ISO 7010\*.

NOTE! The pictograms marked with an asterisk (\*) in the table are according to EN ISO 7010 

Product picture	Product code	Product description	Product code	Pictogram	
	W140008	Diffuser (XK41602), for ESC 0,5 (TW416xx) Exit Lights  *Pictograms according to EN ISO 7010	PB4161B		
			PB4162B		
			PB4171B		
			PB101		
			* PB4161BE		
			* PB4162BE		
			* PB4171BE		
	W140011	Diffuser (MK333), for ESC 2 (TW333xx) Exit Lights	PB158B		
			PB168B		
			PB171B		
			PB103		
	W140012	Diffuser (MK6202), for ESC 6L (TWT62Xx) Exit Lights (grey end covers)	Pictograms for diffusers W140012 and W140013:		
	W140013	Diffuser (MK6212), for ESC 6L (TWT62Xx) Exit Lights (white end covers)	PB158B		
			PB168B		
			PB171B		
			PB103		
		*Pictograms according to EN ISO 7010	* PB158BE		
			* PB168BE		
			* PB171BE		
		W140014	Diffuser (XW47402), for Ledman (TW474xx) Exit Lights Includes a multifunction pictogram	Includes a multifunction pictogram	

# THE USE OF MULTIFUNCTION PICTOGRAMS

**NOTE! THERE IS NO MULTIFUNCTION PICTOGRAM AVAILABLE FOR THE NEW EN ISO 7010 PICTOGRAMS!**

## Guide for the use of multifunction pictograms

1. Glue the label carefully to the light's diffuser, if it hasn't already been glued.
2. Remove the protection paper off the label.
3. Select the desired white pictogram figure by removing the extra green items e.g. with a knife (keep the knife blade near to the label's surface, and slide the knife evenly, so that the removed part doesn't come off in small pieces, but in one piece).



## FIGURE ALTERNATIVES (white figures on a green surface):



The figures below are not allowed



**NOTE!** All new Exit Lights come with pictograms according to EN ISO 7010\*, there is no Multifunction Pictoram available as EN ISO 7010 version.

# END COVERS FOR EXIT LIGHTS

Product picture	Product code	Product description
	W140015	End Covers (KM305) (closed) for Exit Lights: TW305xx, ESC 1 TW416xx, ESC 0,5 TW417xx, ESC 1,5
	W140016	End Covers (KM306) (open) for Exit Lights: TW305xx, ESC 1 TW416xx, ESC 0,5 TW417xx, ESC 1,5
	W140017	End Covers (MK775) for Exit Lights: TW775xx, ESC 5 TW776xx, ESC 5
	W140018	End Covers (MK777) for Exit Lights: TW777xx, ESC 5 TW778xx, ESC 5

WE ALSO HAVE A RANGE OF FLUORESCENT LAMPS AVAILABLE, FOR MORE INFORMATION, SEE THE CONTACT INFORMATION ON PAGE 22.

# FREQUENTLY ASKED QUESTIONS

**Question:** How to confirm the condition of the batteries?

**Answer:** The condition of the batteries of the Central Battery Systems needs to be checked on a regular basis. If it appears, that the batteries are in poor condition, their capacity needs to be measured. The battery capacity is verified by running a full duration test, according to the standard EN 50171.

**Question:** How to find the product's manufacturing date?

**Answer:** The product's manufacturing date is printed on the type label on the product. Check the type label images, and how the information is read, on page 3.

**Question:** How to speed up the order process, or getting answers regarding the products?

**Answer:** Before contacting Teknoware, please find out the product's product code and manufacturing date, from the type sticker. See page 3 for instructions.

**Question:** Is it possible to change only the interior parts of the Emergency or Exit Light?

**Answer:** Yes. There are batteries, LED circuit boards, diffusers and other spare parts in our selection. Some of the Emergency and Exit Lights, using fluorescent lamps, can be updated into long-life LED versions, with our LED spare part packages (pages 16-17).

**Question:** How long do the LEDs last?

**Answer:** LEDs will dim with age. Nowadays, the typical service life for the LEDs in Exit Lights is 8-12 years. The condition of the LED Exit Lights (the pictogram's luminance, according to standard EN 1838) can also be checked visually, but it's recommended to use a lux meter. If the pictogram is clearly dimmed, either the LED circuit board, or the complete Exit Light must be changed.

**Question:** Is it possible to change only the pictogram sticker, if e.g. the Exit Light's arrow direction needs to be changed?

**Answer:** In case of a pictogram sticker, we recommend buying a new diffuser, with a new pictogram. The pictogram sticker's removal from the diffuser, and/or gluing a new pictogram's in an old diffuser, is not easy, and may not succeed neatly.

**Question:** What does external fault mean?

**Answer:** External Fault means, that the addressable Tapsa Control Central Battery System has noticed one or more defective Emergency or Exit Lights, when running a luminaire test. If all the Emergency/Exit Lights in one luminaire circuit give a fault alarm, it can mean, that also the Change Over Module can be defective.

**Question:** Why do Central Battery Systems work in back-up mode, even though the network is present and the feed fuses are undamaged?

**Answer:** Check if the automatic battery or luminaire test is on. In that case, the battery system works in back-up mode. Other possible reason could be, that the remote control contact is open. This can be checked by measuring the DC voltage from the remote control interface (the numbers of the remote control interface connector are found in the installation and maintenance guide). The voltage should be 0 VDC, if the ring/loop is closed.

**Question:** How often do the Central Battery System's batteries need to be replaced to new ones?

**Answer:** The batteries need to be replaced to new ones, when the system's back-up operating time stays under the informed duration (typically 1 or 3 hours). Among other things, the conditions of the surroundings (high temperature, moisture) have an effect to the service life of the batteries.

When performing maintenance work, remember to disconnect the battery fuses, so that the batteries do not run empty. This way, you will also ensure the safety of your maintenance work.

**Question:** What does Internal Fault in a Central Battery System's display mean?

**Answer:** Internal fault means a fault in Central Battery System itself, or in the batteries. Firstly, the condition of the batteries needs to be checked. If the batteries are in good condition, the fault probably lies in charging of the batteries.

# AFTER SALES CONTACTS

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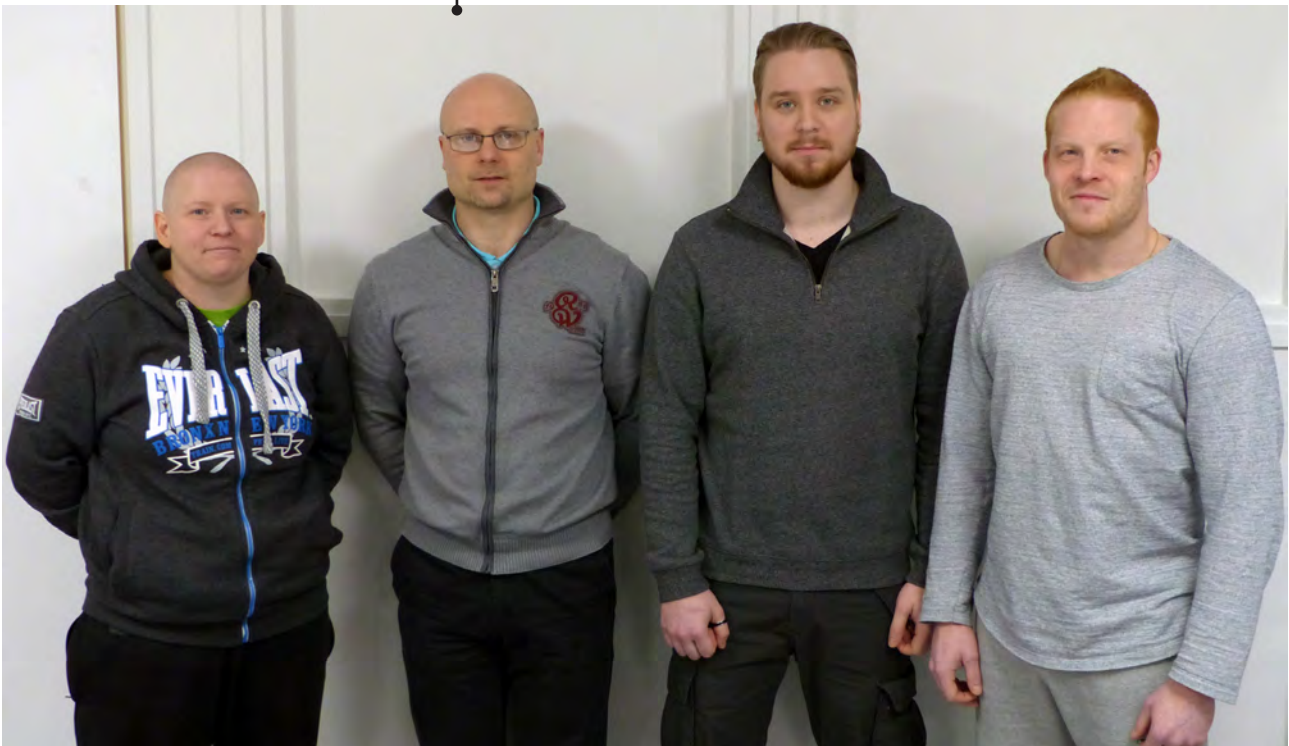
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Teknoware's emergency lighting department's After Sales:  
Satu Harmokivi, Markus Laurell, Jani Aalto and Petri Tuunanen.



# SPARE PARTS SORTED BY CODES

Product code	Page	Product code	Page	Product code	Page
W010001.....	6	W100002.....	13	W140001.....	18
W010002.....	6	W100003.....	13	W140002.....	18
W010003.....	7	W100004.....	13	W140003.....	18
W010004.....	7	W100005.....	13	W140004.....	18
W010005.....	10	W100006.....	13	W140005.....	18
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W010008.....	9	W100008.....	13	W140009.....	18
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